--6 An injection unit for an injection molding machine for processing thermoplastic material, said molding machine having a screw guided In a cylinder, comprising

a first motor coupled to said screw for axially moving said screw in said cylinder for injecting said thermoplastic material, and a second motor coupled to said screw by a gear mechanism for rotating said screw for preparing said thermoplastic material for injection, said gear mechanism reducing the rotational speed of said screw relative to said second motor to a speed appropriate for the preparation of said material for injection.

- 7. The injection unit according to claim 6, wherein the gear mechanism can be blocked during the operation of injecting the thermoplastic material.
- 8. The injection unit according to claim 7, wherein a non-return valve is provided as the block.
- 9. The injection unit according to claim 7, wherein a belt-pulley gear is provided as the gear mechanism.
- 10. The injection unit according to claim 6, wherein the first motor rotatably moves a spindle which is connected to the screw via a spindle nut secured against axial displacement.—

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